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NOTICE OF ALLOWANCE AND FEE(S) DUE

24998 7590 07/28/2008 DICKSTEIN SHAPIRO LLP 1825 EYE STREET NW

Washington, DC 20006-5403

EXAMINER
WELLS, NIKITA
ART UNIT PAPER NUMBER

2881 DATE MAILED: 07/28/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,634	08/31/2006	Noriaki Arai	A8319.0081/P081	7538

TITLE OF INVENTION: SCANNING ELECTRON MICROSCOPE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	10/28/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used f correspondence includired below or directed oth tions.	or tran	smitting the ISSU Patent, advance or in Block 1, by (a	TE FEE and PUBLIC ders and notification i) specifying a new o					tould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
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DICKSTEIN SHAPIRO LLP 1825 EYE STREET NW Washington, DC 20006-5403					Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop 18SUE FEE address above, or being faesimile transmitted to the USPTO (571) 273–2885, on the date indicated below.				
washington, DC	20000-5405					isininca to the Cor	10 (57	1)275-2000, on the de	(Depositor's name)
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				(I) the names of up to 3 registered patent attorneys or agents OR, alternatively,					
Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.				(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent automeys or agents. If no name is 3					
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.				2 registered attorney 2 registered paten listed, no name wi	t atto	orneys or agents. If printed.	no nan	ne is 3	
3. ASSIGNEE NAME A									
PLEASE NOTE: Unle recordation as set forth	ess an assignee is ident h in 37 CFR 3.11. Comp	ified be	elow, no assignee of this form is NO	data will appear on t I a substitute for filin	he p	atent. If an assign assignment.	ee is io	dentified below, the do	cument has been filed for
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Please check the appropri	iate assignee category or	catego	ories (will not be pr	inted on the patent):		Individual 🗆 Co	orporati	ion or other private gro	up entity 🗖 Government
4a. The following fee(s)	are submitted:		41	o. Payment of Fee(s):	(Ple:	ase first reapply a	y pre	lously paid issue fee s	hown above)
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 Change in Entity Stat Applicant claims 	tus (from status indicate s SMALL ENTITY statu			☐ b. Applicant is no	o lon	ger claiming SMA	LEN	ITTY status. Sec 37 CF	R 1.27(g)(2).
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if requeered of the United Sta	uired) v tes Pat	will not be accepted ent and Trademark	from anyone other t Office.	han (the applicant; a regi	stered.	attorney or agent; or th	e assignee or other party in
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This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 d application form to the ons for reducing this but irginia 22313-1450. DC 13-1450.	FR 1.3 U.S.C. USPT rden, sl D NOT	11. The informatic 122 and 37 CFR O. Time will vary hould be sent to the SEND FEES OR	on is required to obtain 1.14. This collection depending upon the e Chief Information C COMPLETED FORM	n or is es indi Offic IS T	retain a benefit by t timated to take 12 vidual case. Any co er, U.S. Patent and O THIS ADDRESS	he pub minutes mmen Trader i. SEN	lic which is to file (and s to complete, including is on the amount of tin nark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete atment of Commerce, P.O. for Patents, P.O. Box 1450,

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24998	7590 07/28/2008	EXAMINER			
DICKSTEIN S	HAPIRO LLP	WELLS, NIKITA			
1825 EYE STRE		ART UNIT PAPER NUMB			
Washington, DC	20006-5403	2881			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 271 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 271 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/566,634	ARAI ET AL.	
Examiner	Art Unit	
Nikita Walle	2881	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative

- of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.
- This communication is responsive to Application filed August 31, 2006. The allowed claim(s) is/are 1-15.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - b) ☐ Some* c) ☐ None of the:
 - 1. A Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.
 - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08).
- Paper No./Mail Date 01/31/06
- 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7. ☐ Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- Other .

/Nikita Wells/ Primary Examiner, Art Unit 2881 July 22, 2008

Page 2

Application/Control Number: 10/566,634

Art Unit: 2881

DETAILED ACTION

Allowable Subject Matter

- Claims 1-15 are allowed.
- The following is an examiner's statement of reasons for allowance:

With respect to the independent claim 1, prior art fails to disclose or make obvious, in combination with other recited features of the claim limitations, a scanning electron microscope, comprising: an electrode which is located under an objective lens, and to which a voltage can be applied independently, and a sample stage which is located under said electrode, and to which a voltage can be applied independently, said sample stage being used for mounting a sample thereon, wherein said sample is set up between said electrode and said sample stage such that an arbitrary equipotential surface and the surface of said sample coincide with each other, said arbitrary equipotential surface being formed by a parallel electric potential, said parallel electric potential being generated between said electrode and said sample stage by applying each of said voltages to said electrode and said sample stage.

The key element of the applicant's invention, not disclosed in prior art but present in the independent claim 1, is that the sample is set up between said electrode and said sample stage such that an arbitrary equipotential surface and the surface of said sample coincide with each other, said arbitrary equipotential surface being formed by a parallel electric potential, said parallel electric potential being generated between said electrode and said sample stage by applying each of said voltages to said electrode and said sample stage.

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Art Unit: 2881

The dependent claims 2-15 are allowable by virtue of their dependence upon the independent claim 1.

Conclusion

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Shojo et al. (2008/0121803 A1) disclose a charged particle beam apparatus for acquiring high-definition observation images using a sample stage located under an objective lens and a focusing electrode. Both Scholtz et al. (6,972,412 B2) and Nagahama et al. (2007/0194232 A1) disclose a substrate inspection apparatus, wherein a primary electron beam irradiates a substrate located on a sample stage, and wherein an electron detection unit detects the secondary electrons, reflected electrons, and back scattered electrons generated from the surface of the substrate.
- 4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nikita Wells whose telephone number is (571) 272-2484. The examiner can normally be reached on 8:30 AM 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (571) 272-2293. The central fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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Art Unit: 2881

6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Nikita Wells/ Primary Examiner, Art Unit 2881 July 22, 2008